

Errata for “Continuity on the real line and in formal spaces”

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June 25, 2006

In [1] the definition of $(a, b)A_f(c, d)$ for a continuous $f : \mathbb{R} \rightarrow \mathbb{R}$ was taken to be $f[(a, b)] \subseteq (c, d)$, which was incorrect. It should be

$$(a, b)A_f(c, d) \iff (a, b) \triangleleft \{(a', b') : (\exists c', d') f[(a', b')] \subseteq (c', d') \& c < c' < d' < d\}$$

to satisfy all conditions on a continuous morphism constructively.

Reference

[1] E. Palmgren. Continuity on the real line and in formal spaces. In: L. Crosilla and P. Schuster (eds.), *From Sets and Types to Topology and Analysis: Towards Practicable Foundations of Constructive Mathematics*. Oxford Logic Guides, Oxford University Press 2005.